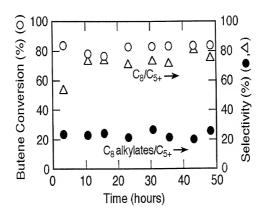
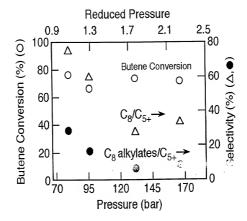


Figure 1



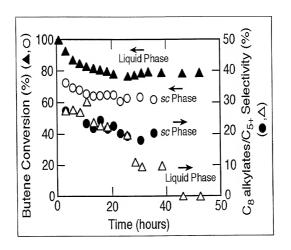
Steady alkylation activity on SAC-13 catalyst. 80 bar, 368 K, 0.05 $h^{\text{-}1}$ OSV, I/O=5, CO $_2$ = 70 mole %.

Figure 2



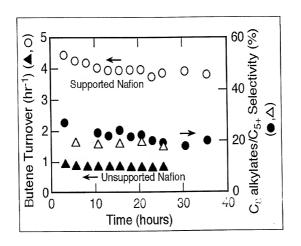
Pressure tuning effect on alkylation activity. 368 K, I/O=5, 0.05 h⁻¹

Figure 3



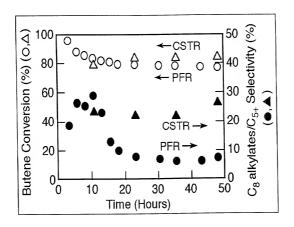
Liquid (26 bar) vs. supercritical phase alkylation (95 bar, 70 mole% CO₂) on SAC-13. 368 K, 0.05 h⁻¹ OSV, I/O=10.

Figure 4



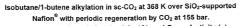
Supported (SAC-13) vs. unsupported Nafion® catalysts. 80 bar, 368 K, 0.05 h¹ OSV, I/O=5, 70 mole% CO₂.

Figure 5



Effect of reactor configuration. 97 bar, 368 K, 0.05 h⁻¹ OSV, I/O=10

Figure 6



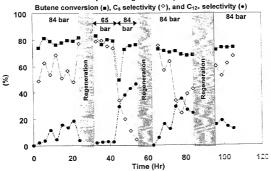


Figure 7

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Isobutane/1-butene alkylation in sc-CO₂ at 368 K over SiO₂-supported Nafion® at 78 bar. Butene conversion (m), C₈ selectivity (\diamond), and C₁₂₊ selectivity (\bullet)

Figure 8

Time

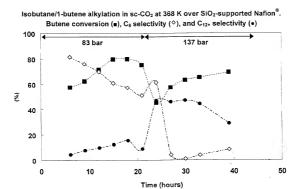


Figure 9

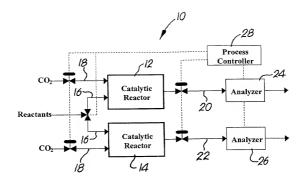


Figure 10